

## **Section XI. Diesel Engine Reporting Requirements**

### **A. General.**

In 1998, the ARB identified diesel exhaust particulate matter (diesel PM) as a toxic air contaminant (TAC). As part of that process, the California Office of Environmental Health Hazard Assessment (OEHHA) adopted a new cancer risk factor for public exposure to diesel PM. Application of the diesel PM cancer risk factor to facilities with diesel engines indicated that many of these facilities had the potential to pose a significant risk to the public.

Due to the large number of facilities with diesel engines and the toxicity of diesel PM, special reporting procedures apply to facilities with diesel engines. The special diesel reporting procedures were developed in part to integrate the AB 2588 "Hot Spots" process for facilities with diesel engines with the 2004 Stationary Diesel Engine Air Toxic Control Measure (ATCM; section 93115, title 17, California Code of Regulations (CCR)) to eliminate duplicative reporting requirements.

### **B. Facilities Subject to Diesel Engine Reporting Requirements.**

A facility with a diesel engine is subject to section XI of this regulation if the facility meets the following criteria.

- (i) The facility operates any number or type of diesel engines for more than **20 hours per year combined total at the facility**, or the district determines that the facility may impact public health.
- (ii) The use of the diesel engine(s) is a 'routine and predictable' operation of the facility. Hours for maintenance and testing for stationary engines are considered routine and predictable and must be reported in the facility's emission inventory. Operations during electricity outages are generally not 'routine and predictable', and are not required to be included in the facility's inventory.

### **C. "Diesel Engine-Only" Facility Classification.**

The district may classify a facility as a "Diesel Engine-Only" Facility if the district determines that diesel engine emissions are the only air pollutants released from the facility that have the potential to impact public health. A "Diesel Engine-Only" Facility is eligible for modified requirements for inventory reporting, risk assessment, and fees, as described in sections XI.C through XI.I.

A facility previously designated as "Low-Level" may request that the district include the facility in the "Diesel Engine-Only" Facility classification if the facility has submitted all

of the information in section XI.D.(2) to the district, including any other information necessary to assess the risk from the facility. A facility previously designated as an “Intermediate-Level” or “High-Level” facility for other toxics besides diesel PM may not be classified as a “Diesel Engine-Only” Facility.

#### **D. Diesel PM Inventory Requirements for Facilities with Diesel Engines.**

##### **(1) Reporting Schedule**

###### **(a) Existing Facilities with Diesel Engines**

“Low Level”, “Intermediate-Level” and “High-Level” facilities with diesel engines shall submit a diesel PM inventory to the district that includes all of the information listed in section XI.D.(2) to the district upon request.

###### **(b) New facilities**

A facility with a diesel engine that has not previously been designated as a “Low-Level”, “Intermediate-Level”, or “High-Level” facility, must submit the information listed in section XI.D.(2) to the district upon request.

###### **(c) Additional Diesel Engines or Equipment Installed at a Facility**

Any facility that installs a new or additional diesel engine must submit a new and complete facility inventory plan and report to the district upon request.

###### **(d) Submittal of Diesel PM Information from the District to ARB**

The district shall submit the diesel PM information included in section XI.D.(2) from every facility with a diesel engine subject to this regulation to ARB during the next annual inventory submittal, and as part of the inventory report for the other toxics at the facility during the regular quadrennial reporting schedule thereafter. The district shall also submit a list of facilities with diesel engines, and their risk assessment scores and status in the “Hot Spots” program, to ARB by January 1, 2010.

##### **(2) Reporting Requirements**

The following diesel engine information must be submitted to the district, in addition to any other data fields required to be reported by the district.

- Engine owner or company name
- Type of business/facility
- Number of diesel engines at business/facility
- Address/location of each diesel engine
- Contact name, phone number, mailing address, and e-mail
- County and air district where engine is located
- District permit number of diesel engine(s)

- Engine type
- Describe general use of engine
- Typical annual hours of operation for the diesel engine (If seasonal, include months of year operated and typical hours per month operated)
- Engine Installation date
- Typical load (% of bhp rating)
- Rated brake horsepower
- Make, model, engine family, and serial number of engine
- Year of manufacture (or approximate age)
- Exhaust stack height from ground
- Diameter and direction (horizontal or vertical) of stack outlet
- End of stack (open or capped)
- Control equipment (diesel particulate filter, diesel oxidation catalyst, turbocharger, aftercooler, injection timing retard, other - please specify)
- Operating schedule for engine
- Fuel used (CARB diesel, jet fuel, diesel (by grade), alternative diesel fuel, alternative fuel, combination-dual fuel, other - please specify)
- Fuel usage rate (gal/hr if available)
- Distance from engine to nearest fenceline and residence
- Distance from engine to nearest business
- Distance to nearest school grounds
- Is facility already included in an existing ARB "Hot Spots" toxics inventory?
- Is the facility part of a demand response plan?
- Emission factors for diesel PM (PM10) and NOx
- Compliance plan describing how the facility is complying with the stationary diesel engine ATCM.

The district may request that additional or more detailed information be submitted, including, but not limited to, a plot plan of the facility, in order to characterize the relative locations and emissions of engines, buildings, and receptors.

### (3) Reporting Period for Facilities with Diesel Engines

The district shall calculate the prioritization score for facilities with diesel engines based on either:

- (a) the 2005 diesel engine submittal from facilities; or
- (b) updated information based on 2007 or earlier emissions. In order for the district to consider using 2007 emissions, the facility must submit the 2007 emissions within a timeframe specified by the district, but no later than August 1, 2008.

The decision as to which inventory year to use for calculating a prioritization score is at the discretion of the district. In subsequent years, the district shall prioritize the facility according to procedures specified by the district.

### (4) District Authority to Use ATCM Inventory for "Hot Spots"

The district may use the stationary diesel engine ATCM inventory submitted by a facility to determine whether a risk assessment is required under “Hot Spots”.

## **E. Risk Analysis Procedures for Facilities with Diesel Engines.**

### **(1) Screening Risk Assessment for Facilities with a Stationary Diesel Engine**

#### **(a) Applicability**

A facility with a diesel engine subject to this regulation must submit all of the information in section XI.D.(2) upon request, and any further information requested by the district that is needed to calculate a screening health risk assessment. Based on the results of the screening risk assessment of a prioritization score, the district shall determine whether a full health risk assessment is necessary.

#### **(b) Screening Health Risk Assessment Tables for Diesel Engines**

The district may evaluate the diesel PM risk from a facility with diesel engines by using the ARB’s screening health risk assessment tables and adjustment factors which are incorporated by reference in Appendix G. Any other risk assessment conducted by the district or the facility shall be consistent with the OEHHA Risk Assessment Guidelines incorporated by reference in Appendix G.

#### **(c) Incomplete Information**

A facility that does not provide enough information for the district to calculate a screening health risk assessment score for diesel PM, shall be designated as a “High-Level” facility and must complete a full health risk assessment.

### **(2) Health Risk Assessment Requirements**

If the district identifies a facility as a high priority facility, or a facility’s screening risk assessment score exceeds a score of 10, the facility shall conduct a health risk assessment.

### **(3) Health Risk Assessment Update**

A facility may request that the district calculate an updated health risk assessment score by adding a screening health risk assessment score for diesel PM to the current health risk assessment score for the facility. If the score indicates that the facility is a potential significant risk, the district may require the facility to complete a full health risk assessment that includes current risk plus risk associated with diesel emissions. If the score indicates that the facility is not a potential significant risk, the district shall provide that risk information in their district annual report, and make that report easily available to the public. For facilities that have not conducted a health risk assessment, the district may reprioritize the facility using the existing inventory for the facility plus the new diesel engine information, and then calculate a screening health risk assessment score if necessary.

## **F. Facilities That Reduce Their Operating Hours To Less Than 20 Hours per Year.**

Any “Diesel Engine-Only” Facility that reduces their total operating hours for their diesel engines to less than **20 hours per year combined total for all engines** (for non-emergency operations) is not subject to this regulation if the district determines that the facility does not impact public health, and that the reductions in operating hours are permanent and enforceable. This information must be transmitted to ARB during the next annual inventory reporting schedule.

## **G. Redesignation.**

### **(1) Facilities That Increase Their Emissions**

If a facility that the district has designated as a “Diesel Engine-Only” Facility increases emissions of any listed substance, including diesel PM, the facility is immediately subject to section II.C.(2) and II.E.(1) of this regulation and must submit a complete inventory report to the district upon request.

### **(2) District Requirements**

The district shall reevaluate and shall redesignate a facility's update category within 180 days of the facility submitting an updated inventory report pursuant to section XI.G.(1), and transmit this information to the ARB.

## **H. Public Notification**

A facility that has been identified as a significant risk shall conduct public notification in accordance with procedures specified by the district. The ARB recommends an optional notification be approved by the district for diesel engine-only facilities that is similar to an “industrywide” notification, as described in the CAPCOA Public Notification Guidelines (October, 1992). This allows similar diesel engine-only facilities to be grouped together for purposes of public notification.

## **I. State Fees for “Diesel Engine-Only” Facilities.**

A facility classified as a “Diesel Engine-Only” Facility may be assessed the same State fee rate that an “Industrywide” facility is assessed in the AB 2588 Air Toxics “Hot Spots” Fee Regulation, section 90700-90705, title 17, California Code of Regulations (CCR). In 2005 that amount was \$35.

[END OF SECTION XI][Appendices A-G are Included as Separate Attachments]